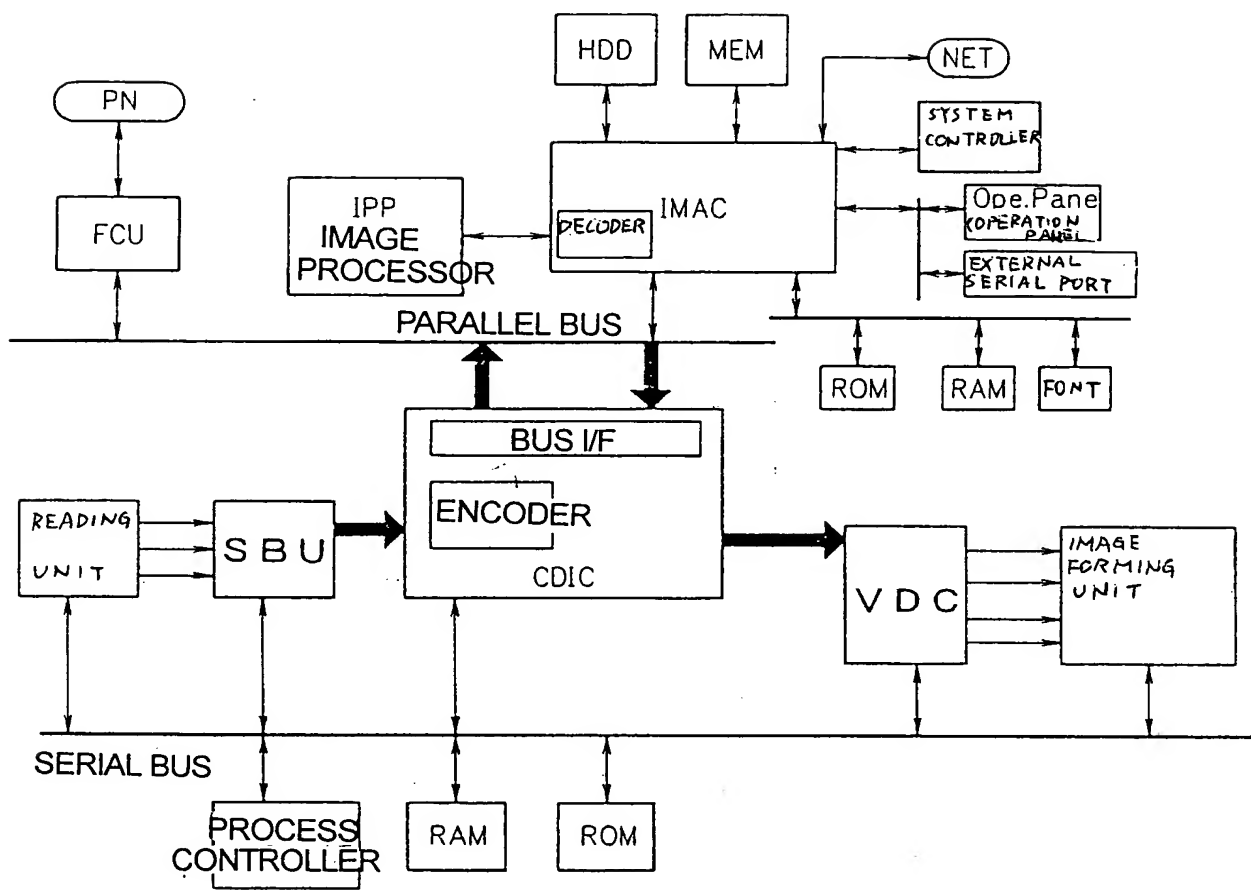
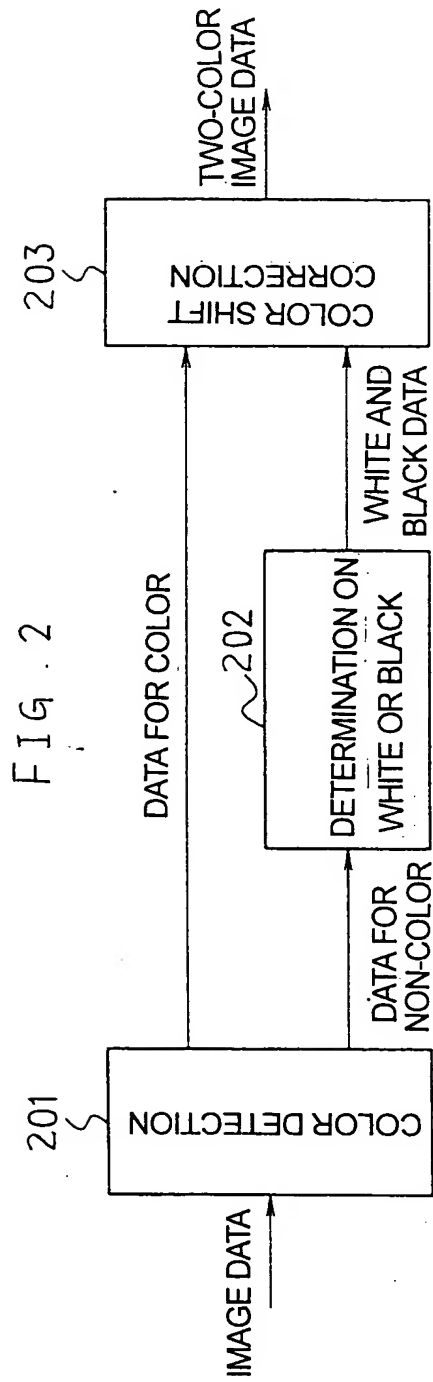


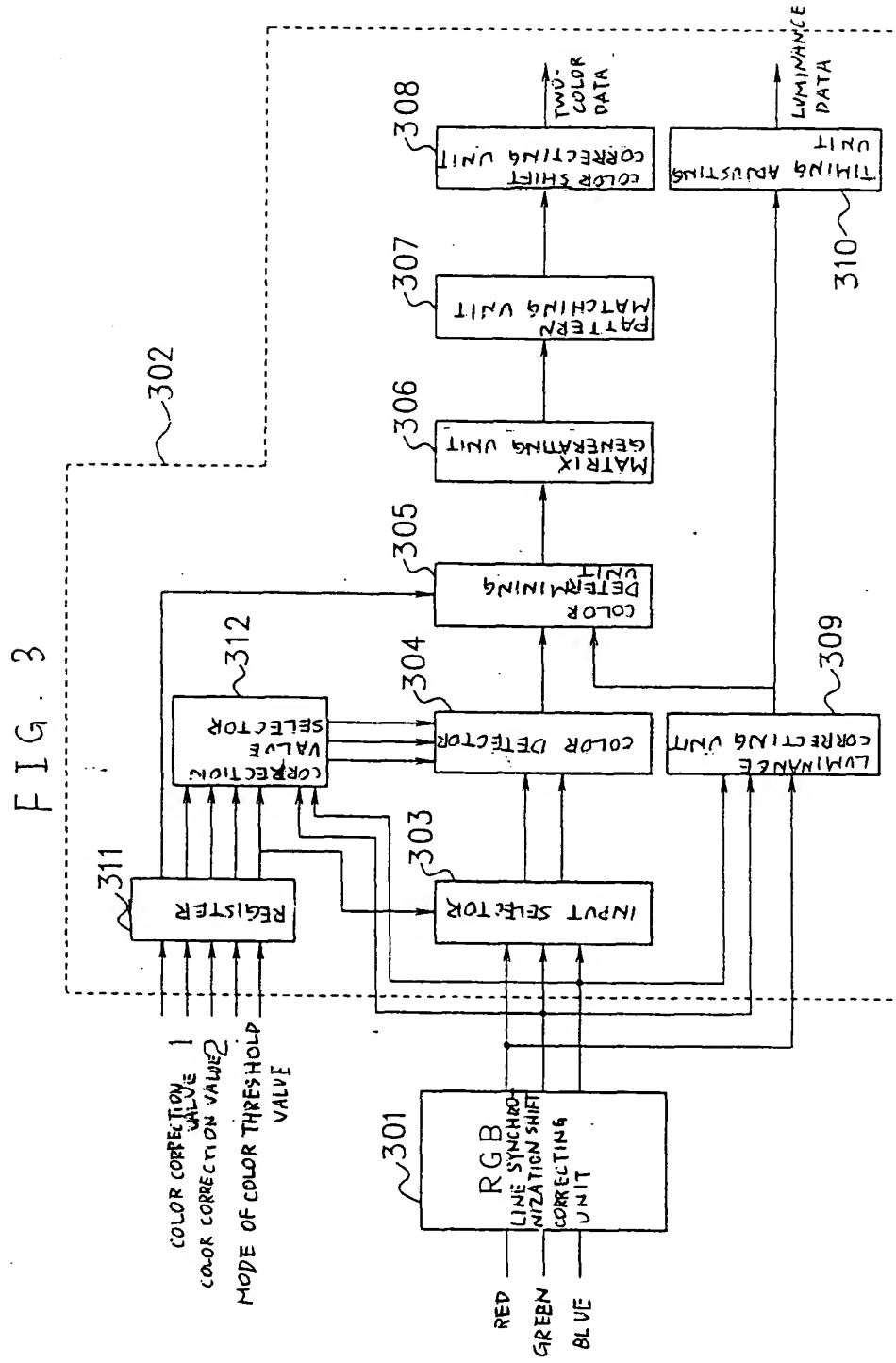
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FIG. 1



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FIG.4

EXPRESSION (1)	EXPRESSION (2)	EXPRESSION (3)	RESULTS OF DETERMINATION	REMARKS
1	1	NO RELATION	RED	1 : ESTABLISHED 0 : NOT ESTABLISHED
	0		NOT RED	
0	NO RELATION	1	RED	
		0	NOT RED	

FIG.5

DETERMINATION EXPRESSION	RESULTS	REMARKS
$(2R+5G+B) / 8 > K_{th}$	WHITE	K _{th} : THRESHOLD VALUE FOR DETERMINING IF DATA IS WHITE OR BLACK BASED ON LUMINANCE
$(2R+5G+B) / 8 \leq K_{th}$	BLACK	

FIG.6

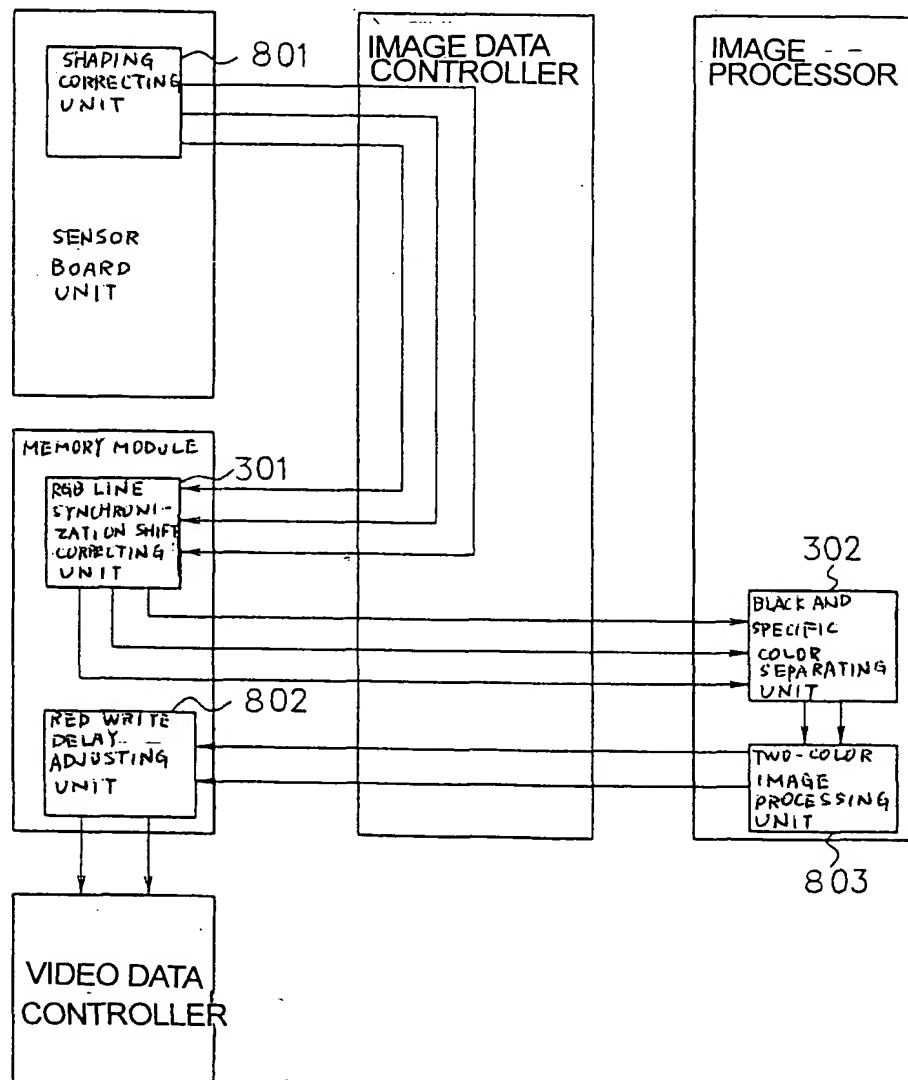
	1	2	3	4	5
1	11	12	13	14	15
2	21	22	23	24	25
3	31	32	33	34	35
4	41	42	43	44	45
5	51	52	53	54	55

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FIG. 7

HORIZONTAL	LP1	31	32	33	34	LP2	35	34	33	32
VERTICAL	LP3	13	23	33	43	LP4	53	43	33	23
SLANTING	LP5	11	22	33	44	LP6	55	44	33	22
SLANTING	LP7	15	24	33	42	LP8	51	42	33	24

FIG. 8



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FIG.9

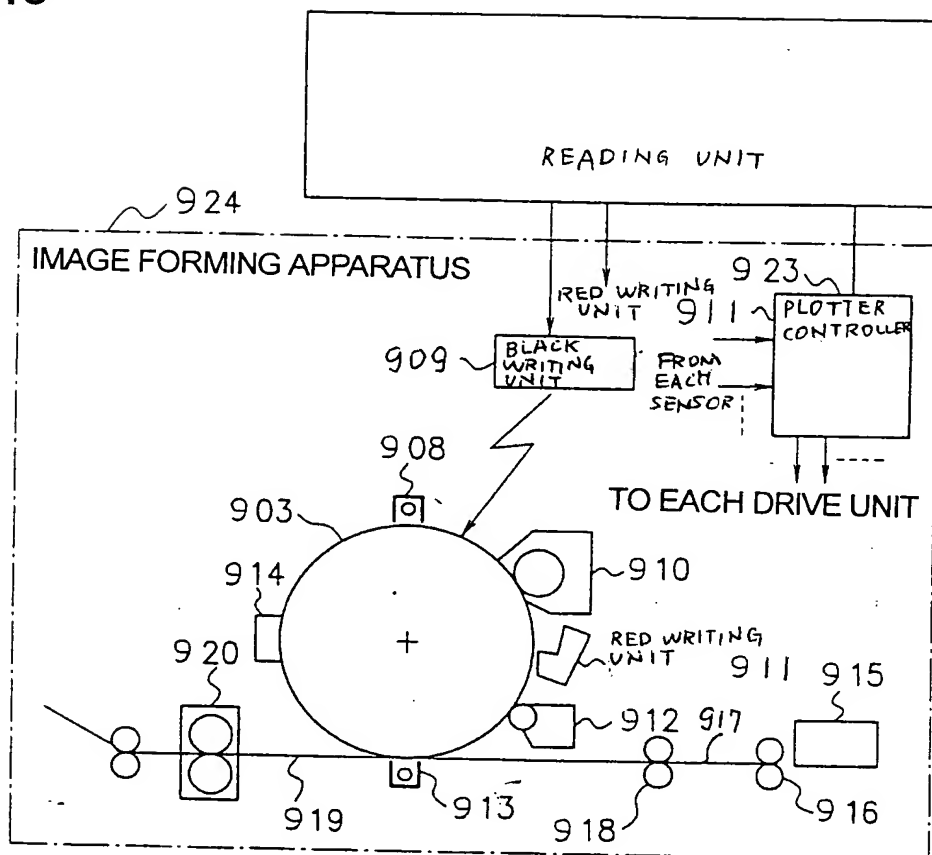


FIG.10

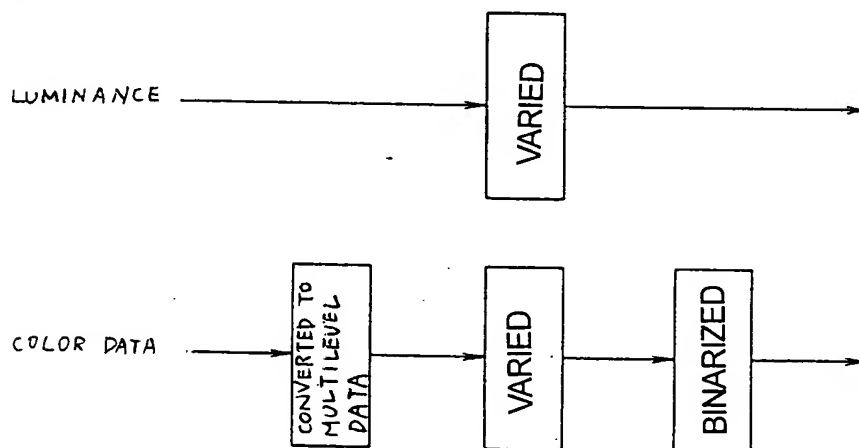


FIG.11

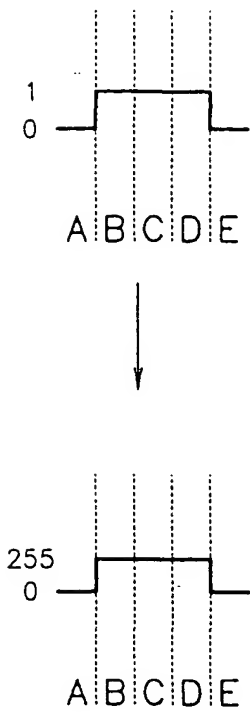
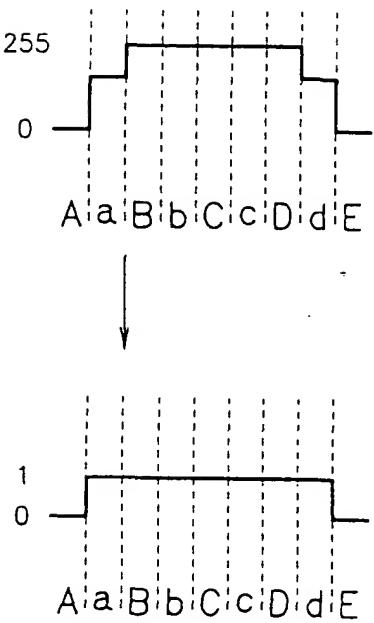
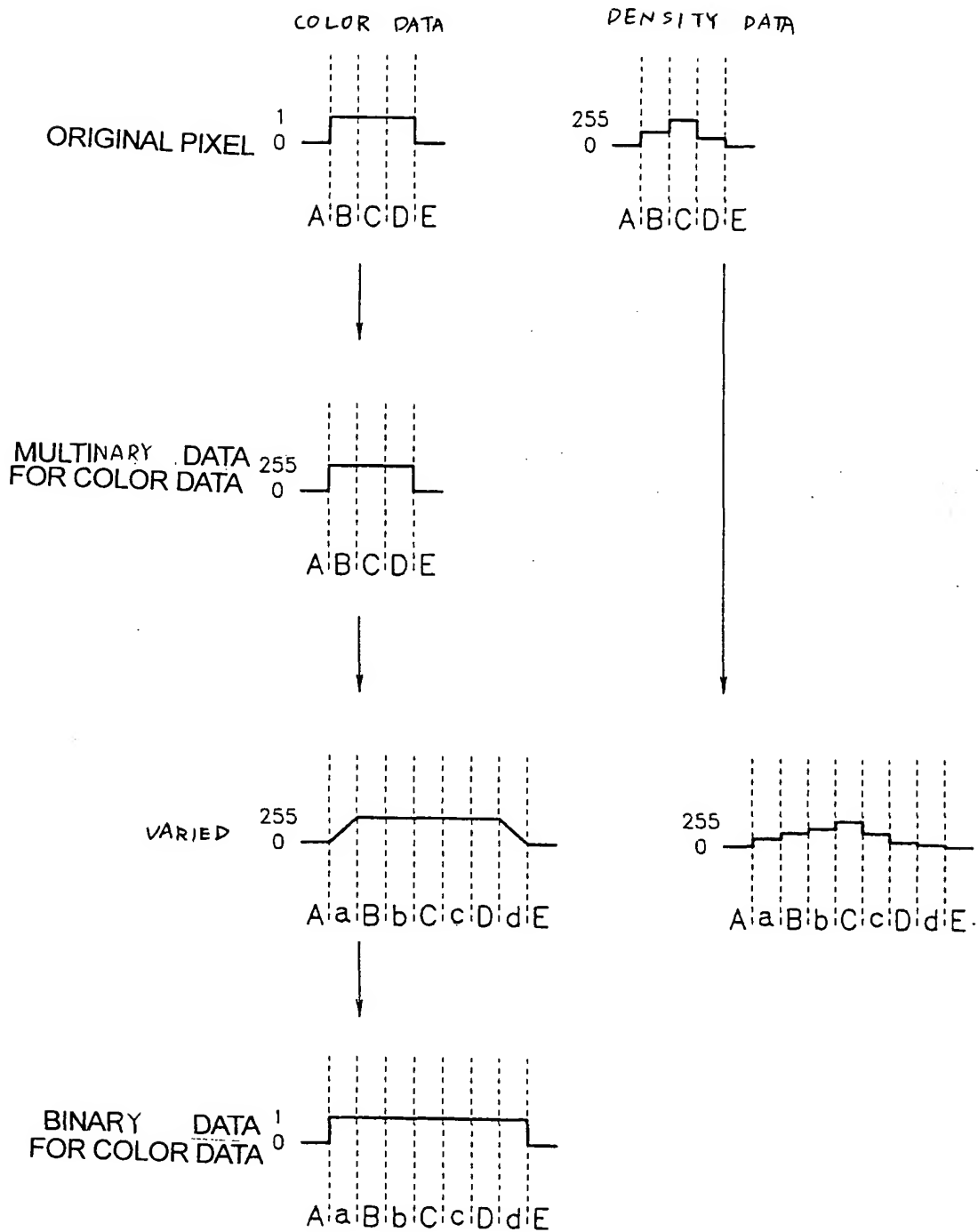


FIG.12



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FIG.13



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FIG. 14

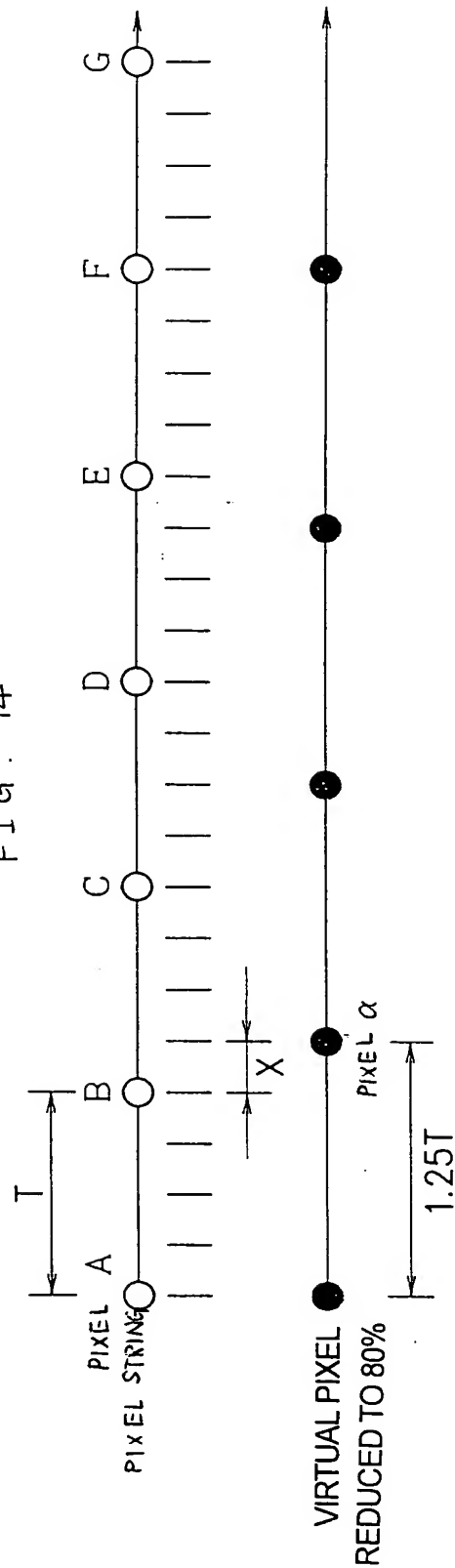


FIG.15

